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Lexical knowledge engineering: Mikrokosmos revisited
E Lonergan - ... -Pacific Association for Computational Linguistics 2001, 2001 - afnlp.org
... as: IS-A links/**hierarchical** relations, linguistic ... algorithms and creates **ontological**
concept instantiations. ... **LEXICON** [constraint satisfaction through **concept** ...
Cited by 3 - View as HTML - Web Search - afnlp.org

A **Lexicon** for Knowledge-Based MT.
B Onyshkevych, S Nirenburg - Machine Translation, 1995 - ilit.umbc.edu
... by building lexi- cons as **hierarchical** structures, with ... string which is an instantiation
of an **ontological concept**. ... see Section 9). Thus, our **lexicon** entry for ...
Cited by 19 - View as HTML - Web Search

Meaning Postulates in a Lexico-Conceptual Knowledge Base
C Periñán-Pascual, F Arcas-Túnez - Proceedings of the Database and Expert Systems Applications, ..., 2004 -
ieeexplore.ieee.org
... a literal implementation of Dik's **lexicon**, but we ... Figure 1. **Ontological** structuring
in FunGramKB. ... headed by symbol $, is not **hierarchical** structured; however ...
Web Search - doi.ieeecomputersociety.org - ieeexplore.ieee.org - portal.acm.org

A **Lexicon** for Knowledge-Based MT
M Translation - Machine Translation, 1995 - springerlink.com
... by building lexicons as **hierarchical** structures, with a ... the ontology; the "Y."
identifies **ontological** concepts which ... semantics zone of this **lexicon** entry (for ...
Web Search

An Implemented, Integrative Approach to Ontology-Based NLP and Interlingua
M McShane, S Nirenburg, S Beale - ilit.umbc.edu
... PERFORM - SURGERY include the following (**ontological** concepts are ... 2 We have extracted
a **hierarchical** tree of ... synonym- and hyponym-based **lexicon** (and associated ...
View as HTML - Web Search

Semantic Classification for Practical Natural Language Processing
K Mahesh, S Nirenburg - Proceedings of the Sixth ASIS SIG/CR Classification Research ..., 1995 - ilit.umbc.edu
... base which is essentially a strict **hierarchical** organization of ... The **ontological** ... There
is a second entry for \adquirir" in the Spanish **lexicon** corresponding to ...
Cited by 18 - View as HTML - Web Search

[BOOK] Literary Computing and Literary Criticism: Theoretical and Practical Essays on **Theme** and Rhetoric
RG Potter - 1989 - books.google.com
... especially hy- pothesis testing; those on **theme**, all of ... of this century is their
common **concept** of structure ... choose to use a fre- quency **dictionary** if none ...
Cited by 7 - Web Search

An **ontological**-semantic framework for text analysis
BA Onyshkevych - 1997 - lti.cs.cmu.edu

... traditional selectional restrictions) where any **concept** in the ... to facilitate lexical
and **ontological** entry, as ... such as definition of the **lexicon** format and ...
Cited by 7 - View as HTML - Web Search - Library Search

Lexical acquisition with WordNet and the Mikrokosmos ontology
TO'Hara, K Mahesh, S Nirenburg - Proceedings of the COLING/ACL Workshop on Usage of WordNet ..., 1998 -
acl.ldc.upenn.edu
... is-a hierarchy: one performs **hierarchical** matching of ... form the bulk of any **lexicon**
and often ... problems with different **ontological** decompositions, specifically ...
Cited by 10 - View as HTML - Web Search - acl.eldoc.ub.rug.nl - cs.nmsu.edu - ai.sri.com - all 5 versions »

Semantics in Action
E Viegas, K Mahesh, S Nirenburg, S Beale - Predicative Forms in Natural Language and Lexical Knowledge ... -
ilit.umbc.edu
... not be the **theme** of an ACQUIRE **concept**. ... from the ontology and added to those encoded
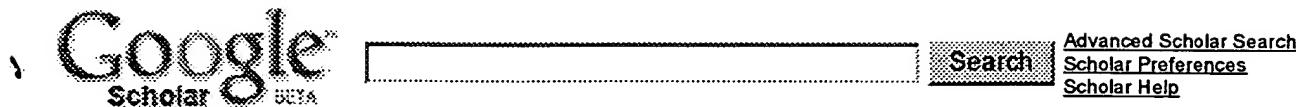in the **lexicon**. ... constraints are checked by an **ontological** search program ...
Cited by 9 - View as HTML - Web Search

hierarchical ontological lexicon dictic Search

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Google Scholar BETA

[   ] Search

Scholar

Results **1 - 10** of about **27** citing **Andreasen: Ontology-Based Querying**. (**0.04** seconds)

Ontology-Based Querying

T Andreasen, JF Nilsson, HE Thomsen - FQAS, 2000 - ceur-ws.org
Page 1. On ontology-based querying Troels Andreasen and Henrik Bulskov
and Rasmus Knappe Department of Computer Science, Roskilde ...
Cited by 27 - View as HTML - Web Search · akira.ruc.dk - akira.ruc.dk - cs.vu.nl

Ontological Extraction of Content for Text Querying

T Andreasen, PA Jensen, JF Nilsson, P Paggio, BS ... - NLDB, 2002 - springerlink.com
Page 1. Ontological Extraction of Content for Text Querying Troels Andreasen 1 ,
Per Anker Jensen 2 , Jørgen Fischer Nilsson 3 , Patrizia Paggio 4 , ...
Cited by 10 - Web Search · portal.acm.org

Ontology-based distributed autonomous knowledge systems

ZW Ras, A Dardzinska - Information Systems, 2004 - coe.uncc.edu
Page 1. Ontology Based Distributed Autonomous Knowledge Systems Zbigniew
W. Ras □,° , Agnieszka Dardzinska + □ University of ...
Cited by 9 - View as HTML - Web Search - portal.acm.org - portal.acm.org

Un langage de description de composants actifs pour le web sémantique

N Sabouret, JP Sansonnet - Revue - averse.imag.fr
Page 1. Un langage de description de composants actifs pour le web sémantique
Nicolas Sabouret , Jean-Paul Sansonnet LIMSI-CNRS, BP ...
Cited by 7 - Web Search - revue-i3.org · www-oasis.lip6.fr · limsi.fr - all 5 versions »

User Interface Tactics in Ontology-Based Information Seeking

E García, MA Sicilia - PsychNology Journal, 2003 - psychnology.org
Page 1. PsychNology Journal, 2003 Volume 1, Number 3, 242 - 255 242 User
Interface Tactics in Ontology-Based Information Seeking ...
Cited by 7 - View as HTML - Web Search - psychnology.org

On Measuring Similarity for Conceptual Querying

H Bulskov, R Knappe, T Andreasen - FQAS, 2002 - springerlink.com
Page 1. On Measuring Similarity for Conceptual Querying Henrik Bulskov,
Rasmus Knappe, and Troels Andreasen Department of Computer ...
Cited by 6 - Web Search - akira.ruc.dk - portal.acm.org - all 5 versions »

From Ontology over Similarity to Query Evaluation

T Andreasen, H Bulskov, R Knappe - 2nd CoLogNET-EIsNET Symposium, Questions and Answers: ..., 2003 -
akira.ruc.dk
Page 1. From Ontology over Similarity to Query Evaluation Troels Andreasen,
Henrik Bulskov, Rasmus Knappe Department of Computer ...
Cited by 3 - View as HTML - Web Search - akira.ruc.dk - www-uilots.let.uu.nl - let.uu.nl

u APPLYING LANGUAGE TECHNOLOGY TO ONTOLOGY-BASED QUERYING: THE ONTOQUERY PROJECT

BSP PATRIZIAPAGGIO - Applied Artificial Intelligence, 2003 - taylorandfrancis.metapress.com
Page 1. u APPLYING LANGUAGE TECHNOLOGY TO ONTOLOGY-BASED QUERYING: THE
ONTOQUERY PROJECT PATRIZIAPAGGIO, BOLETTE S. PEDERSEN, and ...
Cited by 3 - Web Search - ingentaconnect.com - ingentaconnect.com - csa.com

Similarity from Conceptual Relations

T Andreasen, H Bukskov, R Knappe - 22nd International Conference of the North American Fuzzy ..., 2003 -
ieeexplore.ieee.org

Page 1 Similarity From Conceptual Relations 0-7803-7918-7!031$17.00 2003 IEEE 179
Troels Andreasen and Henrik Bulskov and Rasmus Knappe Department of Computer ...
Cited by 3 - Web Search - akira.ruc.dk - akira.ruc.dk - ieeexplore.ieee.org

[PS] Similarity Between Queries in a Mediator

A Bidault, C Froidevaux, B Safar, B Reference - Proc. 15th European Conference on Artificial Intelligence, ... -
lri.fr

Page 1. Similarity Between Queries in a Mediator Alain Bidault, Christine
Froidevaux and Brigitte Safar 1 Abstract. Answering queries ...
Cited by 2 - View as HTML - Web Search - lri.fr - osage.inria.fr - osage.inria.fr

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Ontology-based Text Document Clustering

A Hotho, A Maedche, S Staab - KI, 2002 - users.cs.dal.ca

... every data point tends to have the same **distance** from all ... Example 1 (Example **Ontology**) •
lexicon L = {Hotel, Grand Hotel, Hotel Schwarzer Adler, Accommodation ...

Cited by 9 - View as HTML - Web Search - kde.cs.uni-kassel.de - cs.dal.ca - aifb.uni-karlsruhe.de - all 5 versions
»

Identification of ontologies

J Calmet, A Daemi - iaks-www.ira.uka.de

... for the **Euclidean** space is the **Euclidean distance**, the sum ... **Ontology**-based Text Document
Clustering. ... Frequency Analysis of English Usage: **Lexicon** and Grammar. ...

Cited by 1 - View as HTML - Web Search

Asessing Semnatic Similarities among Geospatial Feature Class Definitions

MA Rodriguez, MJ Egenhofer, RD Rugg - INTEROP, 1999 - spatial.maine.edu

... **distance** between **concepts** as their **Euclidean distance** in a ... 1995), plays another
important role for **ontology**. ... Using a **lexicon** categorization, parts are given by ...

Cited by 35 - Web Search - portal.acm.org - portal.acm.org - spatial.maine.edu

Language-based querying of image collections on the basis of an extensible **ontology**

C Town, D Sinclair, UK Cambridge - Image and Vision Computing, 2004 - cl.cam.ac.uk

... presented here is designed from a general **ontology** which determines its ... These use
the Earth-mover **distance** measure applied to **Euclidean** distances in ...

Cited by 6 - View as HTML - Web Search - cl.cam.ac.uk - ingentaconnect.com - all 4 versions »

Evaluating Context Features for Medical Relation Mining

Š Vintar, L Todorovski, D Sonntag, P Buitelaar - informatik.hu-berlin.de

... medical relations for potential **ontology** enrichment ... Metathesaurus, Semantic Network
and Specialist **Lexicon**. ... same algorithm as before and the **Euclidean distance**. ...

View as HTML - Web Search - muchmore.dfki.de - dfki.de - coli.uni-sb.de - all 6 versions »

Video Collaborative Annotation Forum: Establishing Ground-Truth Labels on Large Multimedia Datasets

CY Lin, BL Tseng, JR Smith - Proceedings of the TRECVID 2003 Workshop, 2003 - itl.nist.gov

... binary decision function, and d() represents the **Euclidean distance** of the test ... 3),
this shall depend on the number of **lexicon** labels in the **ontology** or the ...

Cited by 35 - View as HTML - Web Search - www.nlpir.nist.gov - itl.nist.gov - www.nlpir.nist.gov

The MediaMill TRECVID 2004 Semantic Video Search Engine

CGM Snoek, M Worring, JM Geusebroek, DC Koelma, FJ ... - TREC Video Retrieval Evaluation Online
Proceedings, 2004 - staff.science.uva.nl

... in the OR5 run we experimented with the **ontology**. ... The **Euclidean distance** is used
for histogram comparison. ... or more semantic **concepts** from the **lexicon**, query by ...

Cited by 9 - View as HTML - Web Search - www.nlpir.nist.gov - itl.nist.gov - pamir.cs.deu.edu.tr - all 5 versions »

Scalable Access and Integration of Statistical Data for Digital Government

JL Ambite, Y Arens, E Hovy, J Klavans, A Philpot - isi.edu

... text and numeric vectors, with both **Euclidean** and spherical ... of Database **Concepts**
into a Large **Ontology**. ... COMPLEX: A Computational **Lexicon** for Natural Language ...

View as HTML - Web Search - cs.columbia.edu

Connectionist Contribution to Building Real-World Ontologies

ML Frey - springerlink.com

... to calculate a function of an **Euclidean distance** between the ... taxonomy forms a skeleton
for an **ontology** valid in ... to model the structure of a **lexicon**, because of ...
Web Search

SEAL-II - The Soft Spot between Richly Structured and Unstructured Knowledge

A Hotho, A Maedche, S Staab, R Studer - Journal of Universal Computer Science, 2001 - jucs.org

... For this purpose, the **lexicon** is used to map terms to **concepts**. ... 6 **Ontology**based
Clustering. ... dis)similarity of documents, eg based on the **Euclidean** or based ...
Cited by 24 - Web Search - jucs.org - aifb.uni-karlsruhe.de - uni-koblenz.de - all 5 versions »

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IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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⬜   **1. Video/text linkage system assisted by a concept dictionary and image rec**
Washisaka, M.; Takada, T.; Aoyagi, S.; Onai, R.;
Multimedia Computing and Systems, 1996., Proceedings of the Third IEEE Int
Conference on
17-23 June 1996 Page(s):334 - 339
Digital Object Identifier 10.1109/MMCS.1996.534996

AbstractPlus | Full Text: PDF(648 KB)   IEEE CNF
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⬜   **2. Automated Text Clustering System on Responses to Open-ended Questi**
Evaluations
Min Kang; Asakimori, K.; Utsuki, A.; Kaburagi, M.;
Information Technology Based Higher Education and Training, 2005. ITHET 2(
International Conference on
07-09 July 2005 Page(s):F4B-18 - F4B-22

AbstractPlus | Full Text: PDF(408 KB)   IEEE CNF
Rights and Permissions

⬜   **3. A method of describing document contents through topic selection**
Gelbukh, A.; Sidorov, G.; Guzman-Arenas, A.;
String Processing and Information Retrieval Symposium, 1999 and Internation
Groupware
22-24 Sept. 1999 Page(s):73 - 80
Digital Object Identifier 10.1109/SPIRE.1999.796580

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IEE CNF	IEE Conference Proceeding
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1 Special issue on word sense disambiguation: Introduction to the special issue on word sense disambiguation: the state of the art
Nancy Ide, Jean Véronis
March 1998 **Computational Linguistics**, Volume 24 Issue 1
Publisher: MIT Press
Full text available: pdf(3.44 MB). Additional Information: full citation, references, citings
Publisher Site

2 Special issue on knowledge representation
Ronald J. Brachman, Brian C. Smith
February 1980 **ACM SIGART Bulletin**, Issue 70
Publisher: ACM Press
Full text available: pdf(13.13 MB)   Additional Information: full citation, abstract

> In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter
> devoted to a survey of current knowledge representation research. We felt that there
> were twe useful functions such an issue could serve. First, we hoped to elicit a clear
> picture of how people working in this subdiscipline understand knowledge representation
> research, to illuminate the issues on which current research is focused, and to catalogue
> what approaches and techniques are currently being developed. Secon ...

3 Special issue on natural language generation: A generative perspective on verb alternations
Manfred Stede
September 1998 **Computational Linguistics**, Volume 24 Issue 3
Publisher: MIT Press
Full text available: pdf(2.12 MB). Additional Information: full citation, abstract, references, citings
Publisher Site

> Verb alternations have been researched extensively in linguistics, but they have not yet
> received a systematic treatment in natural language generation systems; consequently,
> generators cannot make informed choices among alternatives. As a step towards
> overcoming this discrepancy, we review some linguistic work on several prominent
> alternations, revise and extend it, and suggest a set of rules that allow the series of

alternated forms to be produced from a single base form of the verb, the lexic ...

4 Special section: Machine translation of natural languages

Sergei Nirenburg

April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available: pdf(1.75 MB)   Additional Information: full citation, abstract, references

> The field of machine translation has recently entered a new, third period in its evolution. In its early period, for roughly fifteen years from 1950 MT was an expanding field of study in which both research and development efforts were undertaken. It is well-known and well documented (Bar Hillel, 1960; ALPAC, 1966) that this early MT paradigm could not and did not produce fully automated high quality translation systems. In fact, the practical results were quite negligible for such a high-scale ...

5 A DAML+OIL-compliant Chinese lexical ontology

Yu-Sheng Lai, Ren-Jr Wang, Wei-Tek Hsu

August 2002 **Proceedings of the 19th international conference on Computational linguistics - Volume 2**

Publisher: Association for Computational Linguistics

Full text available: pdf(95.47 KB)   Additional Information: full citation, abstract, references

> This paper presents an ongoing task that will construct a DAML+Oil-compliant Chinese Lexical Ontology. The ontology mainly comprises three components: a hierarchical taxonomy consisting of a set of concepts and a set of relations describing the relationships among the concepts, a set of lexical entries associated with the concepts and relations, and a set of axioms describing the constraints on the ontology. It currently contains 1,075 concepts, 65,961 lexical entries associated with the concept ...

6 Building accurate semantic taxonomies from monolingual MRDs

German Rigau, Horacio Rodríguez, Eneko Agirre

August 1998 **Proceedings of the 17th international conference on Computational linguistics - Volume 2 , Proceedings of the 36th annual meeting on Association for Computational Linguistics - Volume 2**

Publisher: Association for Computational Linguistics , Association for Computational Linguistics

Full text available: pdf(720.78 KB)

Publisher Site   Additional Information: full citation, abstract, references

> This paper presents a method that conbines a set of unsupervised algorithms in order to accurately build large taxonomies from any machine-readable dictionary (MRD). Our aim is to profit from conventional MRDs, with no explicit semantic coding. We propose a system that 1) performs fully automatic extraction of taxonomic links from MRD entries and 2) ranks the extracted relations in a way that selective manual refinement is allowed. Tested accuracy can reach around 100% depending on the degree of ...

7 The FINITE STRING newsletter: Abstracts of current literature

Computational Linguistics Staff

January 1986 **Computational Linguistics**, Volume 12 Issue 1

Publisher: MIT Press

Full text available: pdf(2.24 MB)   Additional Information: full citation
Publisher Site

8

Domain description grammar: application of linguistic semantics

R. P. Carasik, S. M. Johnson, D. A. Patterson, G. A. Von Glahn
October 1990 **ACM SIGSOFT Software Engineering Notes**, Volume 15 Issue 5
Publisher: ACM Press
Full text available: pdf(1.80 MB)   Additional Information: full citation, abstract, citings, index terms

Domain descriptions should represent more than the characteristics of data and the operations on it. They should be "semantic" in the sense that they may represent information such as the meanings of special terms used in the business, as well as goals and rules. ER models are often described as "semantic data models". However, the correspondence between ER and natural language is through syntactic rather than through semantic constructs. Conceptual modeling languages and knowledge representatio ...

9 Floating constraints in lexical choice
Michael Elhadad, Jacques Robin, Kathleen McKeown
June 1997 **Computational Linguistics**, Volume 23 Issue 2
Publisher: MIT Press
Full text available: pdf(3.13 MB) Publisher Site   Additional Information: full citation, abstract, references, citings

Lexical choice is a computationally complex task, requiring a generation system to consider a potentially large number of mappings between concepts and words. Constraints that aid in determining which word is best come from a wide variety of sources, including syntax, semantics, pragmatics, the lexicon, and the underlying domain. Furthermore, in some situations, different constraints come into play early on, while in others, they apply much later. This makes it difficult to determine a systemati ...

10 Conceptual analysis of lexical taxonomies: the case of WordNet top-level
Aldo Gangemi, Nicola Guarino, Alessandro Oltramari
October 2001 **Proceedings of the international conference on Formal Ontology in Information Systems - Volume 2001**
Publisher: ACM Press
Full text available: pdf(1.27 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

In this paper we propose an analysis and an upgrade of WordNet's top-level synset taxonomy. We briefly review WordNet and identify its main semantic limitations. Some principles from a forthcoming *OntoClean* methodology are applied to the ontological analysis of WordNet. A revised top-level taxonomy is proposed, which is meant to be more conceptually rigorous, cognitively transparent, and efficiently exploitable in several applications.

Keywords: WordNet, ontology, taxonomies, top-level

11 Bioinformatics (BIO): An architecture for biological information extraction and representation
Aditya Vailaya, Peter Bluvas, Robert Kincaid, Allan Kuchinsky, Michael Creech, Annette Adler
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(355.71 KB)   Additional Information: full citation, abstract, references

Technological advances in biomedical research are generating a plethora of heterogeneous data at a high rate. There is a critical need for extraction, integration and management tools for information discovery and synthesis from these heterogeneous data. In this paper, we present a general architecture, called ALFA, for information extraction and representation from diverse biological data. The ALFA architecture consists of: (i) a

networked, hierarchical object model for representing information ...

Keywords: bioinformatics, filtering, heterogeneous data, information representation, information retrieval, interactive text mining, software architecture, user-guided information extraction

12 <u>On primitives, prototypes, and other semantic anomalies</u>
Terry Winograd
July 1978 **Proceedings of the theoretical issues in natural language processing-2**

Full text available: <u>pdf(1.01 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Over the past few years, there have been a number of papers arguing the relative merits of primitives and prototypes as representations for the meaning of natural language. Much of the discussion has been both pugnacious and confused, with each author setting up one or another straw-man to knock down. Much of the confusion has resulted from a lack of agreement as to what it would mean for a system to use primitives or prototypes. There are several different ...

13 <u>The interaction of knowledge sources in word sense disambiguation</u>
Mark Stevenson, Yorick Wilks
September 2001 **Computational Linguistics**, Volume 27 Issue 3
Publisher: MIT Press

Full text available: <u>pdf(2.16 MB)</u> Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>
<u>Publisher Site</u>

Word sense disambiguation (WSD) is a computational linguistics task likely to benefit from the tradition of combining different knowledge sources in artificial in telligence research. An important step in the exploration of this hypothesis is to determine which linguistic knowledge sources are most useful and whether their combination leads to improved results. We present a sense tagger which uses several knowledge sources. Tested accuracy exceeds 94% on our evaluation corpus.Our system attempts ...

14 <u>Language representation and psychology: On primitives, prototypes, and other semantic anomalies</u>
Terry Winograd
July 1978 **Proceedings of the 1978 workshop on Theoretical issues in natural language processing**
Publisher: Association for Computational Linguistics

Full text available: <u>pdf(1.02 MB)</u> Additional Information: <u>full citation</u>, <u>references</u>
<u>Publisher Site</u>

15 <u>Multilingual computational semantic lexicons in action: the WYSINNWYG approach to NLP</u>
Evelyne Viegas
August 1998 **Proceedings of the 17th international conference on Computational linguistics - Volume 2 , Proceedings of the 36th annual meeting on Association for Computational Linguistics - Volume 2**
Publisher: Association for Computational Linguistics , Association for Computational Linguistics

Full text available: <u>pdf(712.56 KB)</u>
<u>Publisher Site</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

Much effort has been put into computational lexicons over the years, and most systems give much room to (lexical) semantic data. However, in these systems, the effort put on the study and representation of lexical items to express the underlying continuum existing in 1) language vagueness and polysemy, and 2) language gaps and mismatches, has remained embryonic. A sense enumeration approach fails from a theoretical point of view to capture the core meaning of words, let alone relate word meaning ...

16 Research session: new applications: The SphereSearch engine for unified ranked retrieval of heterogeneous XML and web documents

Jens Graupmann, Ralf Schenkel, Gerhard Weikum

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

Publisher: VLDB Endowment

Full text available: pdf(381.86 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents the novel SphereSearch Engine that provides unified ranked retrieval on heterogeneous XML and Web data. Its search capabilities include vague structure conditions, text content conditions, and relevance ranking based on IR statistics and statistically quantified ontological relationships. Web pages in HTML or PDF are automatically converted into XML format, with the option of generating semantic tags by means of linguistic annotation tools. For Web data the XML-oriented query ...

17 Special issue of the lexicon: The subworld concept lexicon and the lexicon management system

Sergei Nirenburg, Victor Raskin

July 1987 **Computational Linguistics,** Volume 13 Issue 3-4

Publisher: MIT Press

Full text available: pdf(1.22 MB)   Additional Information: full citation, abstract, references, citings
Publisher Site

Natural language processing systems require three different types of lexicons: the concept lexicon that describes the (sub)world ontology and the analysis and generation lexicons for natural languages. We argue that the acquisition of the concept lexicon must precede any lexical work on natural language and that a comprehensive lexicon management system (LMS) is necessary for lexicon acquisition in large-scale applications. We describe the interactive concept lexicon acquisition module of the LM ...

18 Support concept-based multimedia information retrieval: a knowledge management approach

Bin Zhu, Marshall Ramsey, Hsinchun Chen, Rosie V. Hauck, Tobun D. Ng, Bruce Schatz

January 1999 **Proceeding of the 20th international conference on Information Systems**

Publisher: Association for Information Systems

Full text available: pdf(1.56 MB)   Additional Information: full citation, references, index terms

19 A data dictionary as a Lexicon: an application of linguistics in information systems

J. F. M. Burg, R. P. van de Riet, S. C. Chang

December 1993 **Proceedings of the second international conference on Information and knowledge management**

Publisher: ACM Press

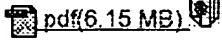Full text available: pdf(826.11 KB)   Additional Information: full citation, references, index terms

20 The FINITE STRING Newsletter: Abstracts of current literature
Computational Linguistics Staff
January 1987 **Computational Linguistics**, Volume 13 Issue 1-2
Publisher: MIT Press
Full text available: pdf(6.15 MB) Additional Information: full citation
Publisher Site

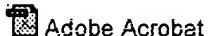Results 1 - 20 of 200   Result page: **1** 2 3 4 5 6 7 8 9 10 next

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1   Building accurate semantic taxonomies from monolingual MRDs
German Rigau, Horacio Rodríguez, Eneko Agirre
August 1998 **Proceedings of the 17th international conference on Computational
         linguistics - Volume 2 , Proceedings of the 36th annual meeting on
         Association for Computational Linguistics - Volume 2**
Publisher: Association for Computational Linguistics , Association for Computational Linguistics
Full text available: 🗎 pdf(720.78 KB)

                                  Additional Information: full citation, abstract, references
         🗎 Publisher Site

   This paper presents a method that conbines a set of unsupervised algorithms in order to
   accurately build large taxonomies from any machine-readable dictionary (MRD). Our aim
   is to profit from conventional MRDs, with no explicit semantic coding. We propose a
   system that 1) performs fully automatic extraction of taxonomic links from MRD entries
   and 2) ranks the extracted relations in a way that selective manual refinement is allowed.
   Tested accuracy can reach around 100% depending on the degree of ...

**2   Special issue on word sense disambiguation: Introduction to the special issue on
     word sense disambiguation: the state of the art**
Nancy Ide, Jean Véronis
March 1998 **Computational Linguistics**, Volume 24 Issue 1
Publisher: MIT Press
Full text available: 🗎 pdf(3.44 MB) 🗎 Additional Information: full citation, references, citings
         Publisher Site

**3   Multilingual computational semantic lexicons in action: the WYSINNWYG approach to
     NLP**
Evelyne Viegas
August 1998 **Proceedings of the 17th international conference on Computational
         linguistics - Volume 2 , Proceedings of the 36th annual meeting on
         Association for Computational Linguistics - Volume 2**
Publisher: Association for Computational Linguistics , Association for Computational Linguistics
Full text available: 🗎 pdf(712.56 KB)

                                  Additional Information: full citation, abstract, references
         🗎 Publisher Site

   Much effort has been put into computational lexicons over the years, and most systems

give much room to (lexical) semantic data. However, in these systems, the effort put on the study and representation of lexical items to express the underlying continuum existing in 1) language vagueness and polysemy, and 2) language gaps and mismatches, has remained embryonic. A sense enumeration approach fails from a theoretical point of view to capture the core meaning of words, let alone relate word meaning ...

4 Special issue on knowledge representation

Ronald J. Brachman, Brian C. Smith

February 1980 **ACM SIGART Bulletin**, Issue 70

Publisher: ACM Press

Full text available: pdf(13.13 MB)   Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

5 The interaction of knowledge sources in word sense disambiguation

Mark Stevenson, Yorick Wilks

September 2001 **Computational Linguistics**, Volume 27 Issue 3

Publisher: MIT Press

Full text available: pdf(2.16 MB) Additional Information: full citation, abstract, references
Publisher Site

Word sense disambiguation (WSD) is a computational linguistics task likely to benefit from the tradition of combining different knowledge sources in artificial in telligence research. An important step in the exploration of this hypothesis is to determine which linguistic knowledge sources are most useful and whether their combination leads to improved results. We present a sense tagger which uses several knowledge sources. Tested accuracy exceeds 94% on our evaluation corpus.Our system attempts ...

6 A DAML+OIL-compliant Chinese lexical ontology

Yu-Sheng Lai, Ren-Jr Wang, Wei-Tek Hsu

August 2002 **Proceedings of the 19th international conference on Computational linguistics - Volume 2**

Publisher: Association for Computational Linguistics

Full text available: pdf(95.47 KB)   Additional Information: full citation, abstract, references

This paper presents an ongoing task that will construct a DAML+Oil-compliant Chinese Lexical Ontology. The ontology mainly comprises three components: a hierarchical taxonomy consisting of a set of concepts and a set of relations describing the relationships among the concepts, a set of lexical entries associated with the concepts and relations, and a set of axioms describing the constraints on the ontology. It currently contains 1,075 concepts, 65,961 lexical entries associated with the concept ...

7 Special issue on natural language generation: A generative perspective on verb alternations

Manfred Stede

September 1998 **Computational Linguistics**, Volume 24 Issue 3

Publisher: MIT Press

Full text available: pdf(2.12 MB) Additional Information: full citation, abstract, references, citings
Publisher Site

Verb alternations have been researched extensively in linguistics, but they have not yet

received a systematic treatment in natural language generation systems; consequently, generators cannot make informed choices among alternatives. As a step towards overcoming this discrepancy, we review some linguistic work on several prominent alternations, revise and extend it, and suggest a set of rules that allow the series of alternated forms to be produced from a single base form of the verb, the lexic ...

8 Bioinformatics (BIO): An architecture for biological information extraction and representation

Aditya Vailaya, Peter Bluvas, Robert Kincaid, Allan Kuchinsky, Michael Creech, Annette Adler
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(355.71 KB)   Additional Information: full citation, abstract, references

Technological advances in biomedical research are generating a plethora of heterogeneous data at a high rate. There is a critical need for extraction, integration and management tools for information discovery and synthesis from these heterogeneous data. In this paper, we present a general architecture, called ALFA, for information extraction and representation from diverse biological data. The ALFA architecture consists of: (i) a networked, hierarchical object model for representing information ...

Keywords: bioinformatics, filtering, heterogeneous data, information representation, information retrieval, interactive text mining, software architecture, user-guided information extraction

9 Special section: Machine translation of natural languages

Sergei Nirenburg
April 1985 **ACM SIGART Bulletin**, Issue 92
Publisher: ACM Press
Full text available: pdf(1.75 MB)   Additional Information: full citation, abstract, references

The field of machine translation has recently entered a new, third period in its evolution. In its early period, for roughly fifteen years from 1950 MT was an expanding field of study in which both research and development efforts were undertaken. It is well-known and well documented (Bar Hillel, 1960; ALPAC, 1966) that this early MT paradigm could not and did not produce fully automated high quality translation systems. In fact, the practical results were quite negligible for such a high-scale ...

10 Conceptual analysis of lexical taxonomies: the case of WordNet top-level

Aldo Gangemi, Nicola Guarino, Alessandro Oltramari
October 2001 **Proceedings of the international conference on Formal Ontology in Information Systems - Volume 2001**
Publisher: ACM Press
Full text available: pdf(1.27 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

In this paper we propose an analysis and an upgrade of WordNet's top-level synset taxonomy. We briefly review WordNet and identify its main semantic limitations. Some principles from a forthcoming *OntoClean* methodology are applied to the ontological analysis of WordNet. A revised top-level taxonomy is proposed, which is meant to be more conceptually rigorous, cognitively transparent, and efficiently exploitable in several applications.
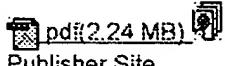
Keywords: WordNet, ontology, taxonomies, top-level

11

The FINITE STRING newsletter: Abstracts of current literature
Computational Linguistics Staff
January 1986 **Computational Linguistics**, Volume 12 Issue 1
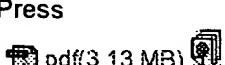**Publisher:** MIT Press
Full text available: pdf(2.24 MB) Additional Information: full citation
Publisher Site

12 Floating constraints in lexical choice
Michael Elhadad, Jacques Robin, Kathleen McKeown
June 1997 **Computational Linguistics**, Volume 23 Issue 2
Publisher: MIT Press
Full text available: pdf(3.13 MB) Additional Information: full citation, abstract, references, citings
Publisher Site

Lexical choice is a computationally complex task, requiring a generation system to
consider a potentially large number of mappings between concepts and words. Constraints
that aid in determining which word is best come from a wide variety of sources, including
syntax, semantics, pragmatics, the lexicon, and the underlying domain. Furthermore, in
some situations, different constraints come into play early on, while in others, they apply
much later. This makes it difficult to determine a systemati ...

13 Domain description grammar: application of linguistic semantics
R. P. Carasik, S. M. Johnson, D. A. Patterson, G. A. Von Glahn
October 1990 **ACM SIGSOFT Software Engineering Notes**, Volume 15 Issue 5
Publisher: ACM Press
Full text available: pdf(1.80 MB)   Additional Information: full citation, abstract, citings, index terms
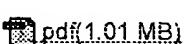
Domain descriptions should represent more than the characteristics of data and the
operations on it. They should be "semantic" in the sense that they may represent
information such as the meanings of special terms used in the business, as well as goals
and rules. ER models are often described as "semantic data models". However, the
correspondence between ER and natural language is through syntactic rather than
through semantic constructs. Conceptual modeling languages and knowledge
representatio ...

14 On primitives, prototypes, and other semantic anomalies
Terry Winograd
July 1978 **Proceedings of the theoretical issues in natural language processing-2**

Full text available: pdf(1.01 MB)   Additional Information: full citation, abstract, references, citings, index
terms

Over the past few years, there have been a number of papers arguing the relative merits
of primitives and prototypes as representations for the meaning of natural language. Much
of the discussion has been both pugnacious and confused, with each author setting up one
or another straw-man to knock down. Much of the confusion has resulted from a lack of
agreement as to what it would mean for a system to use primitives or prototypes. There
are several different ...

15 Word sense disambiguation using optimised combinations of knowledge sources
Yorick Wilks, Mark Stevenson
August 1998 **Proceedings of the 17th international conference on Computational
linguistics - Volume 2 , Proceedings of the 36th annual meeting on
Association for Computational Linguistics - Volume 2**

Publisher: Association for Computational Linguistics , Association for Computational Linguistics

Full text available: pdf(524.93 KB)   Additional Information: full citation, abstract, references, citings

Publisher Site

Word sense disambiguation algorithms, with few exceptions, have made use of only one lexical knowledge source. We describe a system which performs word sense disambiguation on all content words in free text by combining different knowledge sources: semantic preferences, dictionary definitions and subject/domain codes along with part-of-speech tags, optimised by means of a learning algorithm. We also describe the creation of a new sense tagged corpus by combining existing resources. Tested accura ...

16 Language representation and psychology: On primitives, prototypes, and other semantic anomalies

Terry Winograd

July 1978 **Proceedings of the 1978 workshop on Theoretical issues in natural language processing**

Publisher: Association for Computational Linguistics

Full text available: pdf(1.02 MB) Additional Information: full citation, references

Publisher Site

17 Agent-based semantic interoperability in infosleuth

Jerry Fowler, Brad Perry, Marian Nodine, Bruce Bargmeyer

March 1999 **ACM SIGMOD Record**, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(1.01 MB)   Additional Information: full citation, citings, index terms

18 Research session: new applications: The SphereSearch engine for unified ranked retrieval of heterogeneous XML and web documents

Jens Graupmann, Ralf Schenkel, Gerhard Weikum

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

Publisher: VLDB Endowment

Full text available: pdf(381.86 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents the novel SphereSearch Engine that provides unified ranked retrieval on heterogeneous XML and Web data. Its search capabilities include vague structure conditions, text content conditions, and relevance ranking based on IR statistics and statistically quantified ontological relationships. Web pages in HTML or PDF are automatically converted into XML format, with the option of generating semantic tags by means of linguistic annotation tools. For Web data the XML-oriented query ...

19 A data dictionary as a Lexicon: an application of linguistics in information systems

J. F. M. Burg, R. P. van de Riet, S. C. Chang

December 1993 **Proceedings of the second international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: pdf(826.11 KB)   Additional Information: full citation, references, index terms

20 Statistical Machine Translation with Scarce Resources Using Morpho-syntactic Information

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Sonja Nießen, Hermann Ney
June 2004 **Computational Linguistics**, Volume 30 Issue 2
Publisher: MIT Press
Full text available: ▇ pdf(347.19 KB)   Additional Information: full citation, abstract

> In statistical machine translation, correspondences between the words in the source and the target language are learned from parallel corpora, and often little or no linguistic knowledge is used to structure the underlying models. In particular, existing statistical systems for machine translation often treat different inflected forms of the same lemma as if they were independent of one another. The bilingual training data can be better exploited by explicitly taking into account the interdepend ...

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1 Statistical Machine Translation with Scarce Resources Using Morpho-syntactic Information
Sonja Nießen, Hermann Ney
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2 Lexicon acquisition: The ACQUILEX LKB: representation issues in semi-automatic acquisition of large lexicons
Ann Copestake
March 1992 **Proceedings of the third conference on Applied natural language processing**
Publisher: Association for Computational Linguistics
Full text available: ▨ pdf(926.34 KB)
    ▣ Publisher Site   Additional Information: full citation, abstract, references, citings

> We describe the lexical knowledge base system (LKB) which has been designed and implemented as part of the ACQUILEX project[1] to allow the representation of multilingual syntactic and semantic information extracted from machine readable dictionaries (MRDs), in such a way that it is usable by natural language processing (NLP) systems. The LKB's lexical representation language (LRL) augments typed graph-based unification with default inheritance, formalised in terms of default unificatio ...

3 A retrieval system for on-line English-Japanese dictionaries
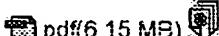⬥ T. Ito, M. Kubota
November 1987 **Proceedings of the 10th annual international ACM SIGIR conference on Research and development in information retrieval**
Publisher: ACM Press
Full text available: ▨ pdf(548.88 KB)   Additional Information: full citation, references, citings, index terms

4 The FINITE STRING Newsletter: Abstracts of current literature
Computational Linguistics Staff
January 1987 **Computational Linguistics**, Volume 13 Issue 1-2
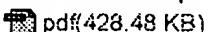**Publisher:** MIT Press
Full text available: pdf(6.15 MB) Additional Information: full citation
Publisher Site

5 Large-scale resources: Logical form of hierarchical relation on verbs and extracting it
from definition sentences in a Japanese dictionary
Yoichi Tomiura, Teigo Nakamura, Toru Hitaka, Sho Yoshida
August 1992 **Proceedings of the 14th conference on Computational linguistics -
Volume 2**
Publisher: Association for Computational Linguistics
Full text available: pdf(428.48 KB) Additional Information: full citation, abstract, references
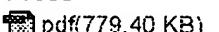
> We are studying how to extract hierachical relation on verbs from definition sentences in a
> Japanese dictionary. The hierarchical relation on verbs has been dealt with as a binary
> relation on verbs, but it should be dealt with as logical relation on predicates. We will
> define the logical form of the hierarchical relation on verbs and then discuss which part of
> the syntactic structure of the definition sentence represents that relation. We will call the
> main predicate verb in this part the defini ...

6 On the computability of certain monsters in Noah's Ark: Using computers to study
Webster's Seventh New Collegiate Dictionary and The New Merriam-Webster Pocket
Dictionary
Carter Revard
January 1968 **Proceedings of the 1968 23rd ACM national conference**
Publisher: ACM Press
Full text available: pdf(779.40 KB) Additional Information: full citation, abstract, references, index terms
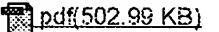
> Complete magnetic tape transcriptions of Webster's Seventh New Collegiate Dictionary
> (hereafter W7) and The New Merriam-Webster Pocket Dictionary (hereafter MPD) are now
> being examined by Olney, Reichert, Revard, and others as part of the Lexicographic
> Project (directed by Olney) at System Development Corporation.1,2 Programs are being
> used or written to process these transcriptions in various ways, both automatically and
> interactively. ...

7 Large-scale resources: A reusable lexical database tool for machine translation
Brigitte Bläser, Ulrike Schwall, Angelika Storrer
August 1992 **Proceedings of the 14th conference on Computational linguistics -
Volume 2**
Publisher: Association for Computational Linguistics
Full text available: pdf(502.99 KB) Additional Information: full citation, abstract, references

> This paper describes the lexical database tool LOLA (Linguistic-Oriented Lexical database
> Approach) which has been developed for the construction and maintenance of lexicons for
> the machine translation system LMT. First, the requirements such a tool should meet are
> discussed, then LMT and the lexical information it requires, and some issues concerning
> vocabulary acquisition are presented. Afterwards the architecture and the components of
> the LOLA system are described and it is shown how we tried ...

8
Special issue on using large corpora: I: Generalized probabilistic LR parsing of
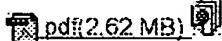
natural language (Corpora) with unification-based grammars
Ted Briscoe, John Carroll
March 1993 **Computational Linguistics**, Volume 19 Issue 1
Publisher: MIT Press
Full text available: pdf(2.62 MB)   Additional Information: full citation, abstract, references, citings
Publisher Site

We describe work toward the construction of a very wide-coverage probabilistic parsing
system for natural language (NL), based on LR parsing techniques. The system is
intended to rank the large number of syntactic analyses produced by NL grammars
according to the frequency of occurrence of the individual rules deployed in each analysis.
We discuss a fully automatic procedure for constructing an LR parse table from a
unification-based grammar formalism, and consider the suitability of alternative ...

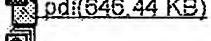**9** FLUSH: a flexible lexicon design
David J. Besemer, Paul S. Jacobs
July 1987 **Proceedings of the 25th annual meeting on Association for Computational
Linguistics**
Publisher: Association for Computational Linguistics
Full text available: pdf(646.44 KB)   Additional Information: full citation, abstract, references, citings
Publisher Site

Approaches to natural language processing that use a phrasal lexicon have the advantage
of easily handling linguistic constructions that might otherwise be extragrammatical.
However, current phrasal lexicons are often too rigid: their phrasal entries fail to cover the
more flexible constructions. FLUSH, for Flexible Lexicon Utilizing Specialized and
Hierarchical knowledge, is a knowledge-based lexicon design that allows broad phrasal
coverage.

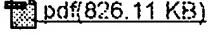**10** A data dictionary as a Lexicon: an application of linguistics in information systems
J. F. M. Burg, R. P. van de Riet, S. C. Chang
December 1993 **Proceedings of the second international conference on Information
and knowledge management**
Publisher: ACM Press
Full text available: pdf(826.11 KB)   Additional Information: full citation, references, index terms

11 Multilingual computational semantic lexicons in action: the WYSINNWYG approach to
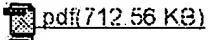NLP
Evelyne Viegas
August 1998 **Proceedings of the 17th international conference on Computational
linguistics - Volume 2 , Proceedings of the 36th annual meeting on
Association for Computational Linguistics - Volume 2**
Publisher: Association for Computational Linguistics , Association for Computational Linguistics
Full text available: pdf(712.56 KB)   Additional Information: full citation, abstract, references
Publisher Site

Much effort has been put into computational lexicons over the years, and most systems
give much room to (lexical) semantic data. However, in these systems, the effort put on
the study and representation of lexical items to express the underlying continuum existing
in 1) language vagueness and polysemy, and 2) language gaps and mismatches, has
remained embryonic. A sense enumeration approach fails from a theoretical point of view
to capture the core meaning of words, let alone relate word meaning ...

12

Papers: An automatic clustering of articles using dictionary definitions

Fumiyo Fukumoto, Yoshimi Suzuki

August 1996 **Proceedings of the 16th conference on Computational linguistics - Volume 1**

Publisher: Association for Computational Linguistics

Full text available: pdf(542.17 KB)   Additional Information: full citation, abstract, references

In this paper, we propose a statistical approach for clustering of articles using on-line dictionary definitions. One of the characteristics of our approach is that every sense of word in articles is automatically disambiguated using dictionary definitions. The other is that in order to cope with the problem of a phrasal lexicon, linking which links words with their semantically similar words in articles is introduced in our method. The results of experiments demonstrate the effectiveness of the ...

13 Context-aware systems: Text input disambiguation supported on a hierarchical user model

Carlos Bento, Nuno Gil

October 2005 **Proceedings of the 2005 joint conference on Smart objects and ambient intelligence: innovative context-aware services: usages and technologies sOc-EUSAI '05**

Publisher: ACM Press

Full text available: pdf(152.52 KB)   Additional Information: full citation, abstract, references

Mobile phones are used for various tasks that go far from voice communication. A popular use is for composition of short messages (SMSs), but other applications are also available like email, agenda, contact, and note management. All these uses have in common the need for text input on a small keyboard with ambiguity problems. Various techniques are currently used for input disambiguation, with variable results in terms of usability and efficiency. Some techniques achieve good performance with me ...

14 Quantitative description of language systems: Working on the Italian machine dictionary: a semantic approach

Nicoletta Calzolari, Laura Pecchia, Antonio Zampolli

August 1973 **Proceedings of the 5th conference on Computational linguistics - Volume 2**

Publisher: Association for Computational Linguistics

Full text available: pdf(1.19 MB)   Additional Information: full citation, references

15 Book reviews: Review of "Medical language processing: computer management of narrative data" by Naomi Sager, Carol Friedman, and Margaret S. Lyman. Addison-Wesley 1987.

Nicoletta Calzolari

September 1989 **Computational Linguistics**, Volume 15 Issue 3

Publisher: MIT Press

Full text available: pdf(510.11 KB)
Publisher Site
   Additional Information: full citation, references

16 Large-scale resources: A Chinese corpus for linguistic research

Chu-Ren Huang, Keh-jiann Chen

August 1992 **Proceedings of the 14th conference on Computational linguistics - Volume 4**

Publisher: Association for Computational Linguistics

Full text available: pdf(259.12 KB)   Additional Information: full citation, abstract, references, citings

This is a project note on the first stage of the construction of a comprehensive corpus of both Modern and Classical Chinese. The corpus is built with the dual aim of serving as the central database for Chinese language processing and for supporting in-depth linguistic research in Mandarin Chinese.

17 Cross-language: Bootstrapping dictionaries for cross-language information retrieval

Kornél Markó, Stefan Schulz, Olena Medelyan, Udo Hahn

August 2005 **Proceedings of the 28th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '05**

Publisher: ACM Press

Full text available: pdf(130.96 KB)   Additional Information: full citation, abstract, references, index terms

The bottleneck for dictionary-based cross-language information retrieval is the lack of comprehensive dictionaries, in particular for many different languages. We here introduce a methodology by which multilingual dictionaries (for Spanish and Swedish) emerge automatically from simple seed lexicons. These seed lexicons are automatically generated, by cognate mapping, from (previously manually constructed) Portuguese and German as well as English sources. Lexical and semantic hypotheses are then ...

Keywords: cross-language information retrieval, lexical acquisition

18 Dictionary II: Lexical database design: the Shakespeare dictionary model

H. Joachim Neuhaus

August 1986 **Proceedings of the 11th coference on Computational linguistics**

Publisher: Association for Computational Linguistics

Full text available: pdf(392.43 KB)   Additional Information: full citation, references

19 An approach based on multilingual thesauri and model combination for bilingual lexicon extraction

Hervé Déjean, Éric Gaussier, Fatia Sadat

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This paper focuses on exploiting different models and methods in bilingual lexicon extraction, either from parallel or comparable corpora, in specialized domains. First, a special attention is given to the use of multilingual thesauri, and different search strategies based on such thesauri are investigated. Then, a method to combine the different models for bilingual lexicon extraction is presented. Our results show that the combination of the models significantly improves results, and that the ...

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